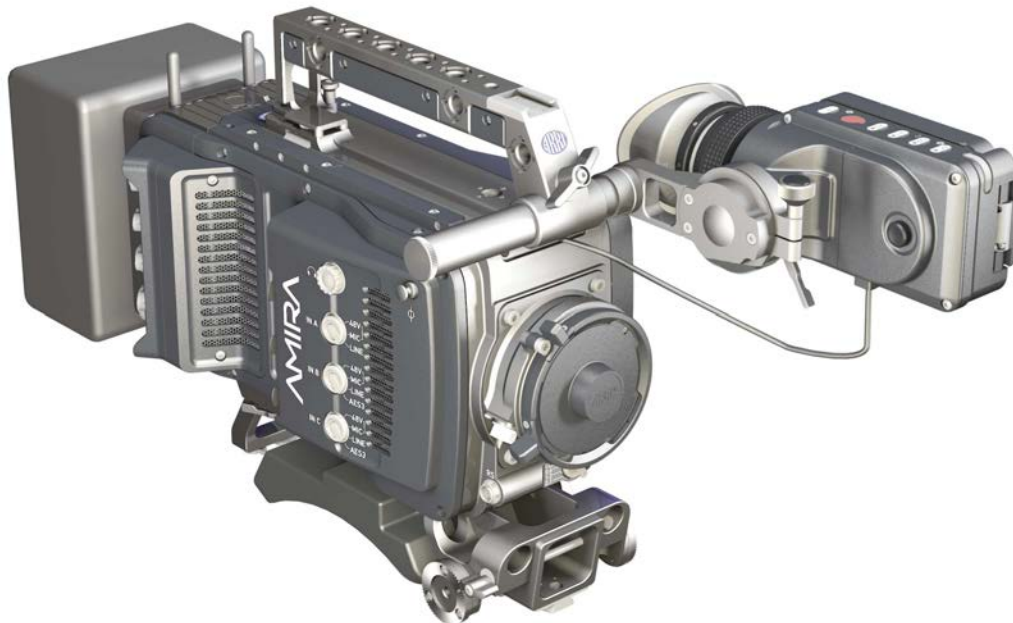


AMIRA

QUICK GUIDE

Date: 02 April 2014



Imprint

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Original version.

NOTICE

This document is a Quick Guide only. For detailed operation instructions, please refer to the User Manual.

For further assistance

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1 For your safety

Before use, please ensure that all users comprehensively read, understand, and follow the instructions in this document.

1.1 Risk levels and alert symbols

Safety warnings, safety alert symbols, and signal words in these instructions indicate different risk levels:

DANGER!

DANGER indicates an imminent, hazardous situation which, if not avoided, **will result in** death or serious injury.

WARNING!

WARNING indicates a potentially hazardous situation which, if not avoided, **may result in** death or serious injury.

CAUTION!

CAUTION indicates a potentially hazardous situation which, if not avoided, **may result in** minor or moderate injury.

NOTICE

NOTICE explains practices not related to physical injury. No safety alert symbol appears with this signal word.

Note: Provides additional information to clarify or simplify a procedure.

1.2 Vital precautions

DANGER!

High voltage! Risk of electric shock or fire!

Short-circuits will entail lethal damage.

Before use, read and follow all valid instructions.

Use solely and exclusively as described in the instructions.

Never open. Never insert objects.

For operation, always use a power source as indicated in the instructions.

Always unplug the power cable by gripping the power plug, not the cable.

Never try to repair. All repair work should be done by a qualified ARRI Service Center.

Never remove or deactivate any safety equipment (incl. warning stickers or paint-marked screws).

Always protect from moisture, cold, heat, dirt, vibration, shock, or aggressive substances.

Never cover any fan openings.

⚠ CAUTION!**Condensation! Risk of electric shock and fire!**

Condensation may form on the sensor and electrical connections when exposing the camera to sudden changes of temperature or humidity.

To avoid injury and damage, never operate the camera when condensation occurs

⚠ CAUTION!**Heavy weight! Risk of injury and damage!**

If placed on an unstable position, the camera can fall and cause serious harm.

Always place the camera on proper support devices. Safely attach it as described in the instructions.

1.3 General precautions

NOTICE

Even rugged cameras use components sensitive to improper use.

Always unplug the camera from power sources before making changes to setup or system (in particular: changing cables).

Protect the optical system and sensor: Never point the camera or viewfinder into direct sunlight.

Avoid permanent sensor damage: Never let any direct light or reflections from high-energy light sources (e.g. laser beams) enter the camera's optical path.

Protect the sensor: Always keep a lens or protective cap on the empty lens mount. Change lenses in dry, dust-free environments only.

Clean the sensor cover glass solely and exclusively as described in the User Manual. If this fails, consult an ARRI Service Center. Never try to remove the glass.

Only use the tools, materials and procedures recommended in this document. For the correct use of other equipment, see the manufacturer's instructions.

2 Audience and intended use

NOTICE

The product is solely and exclusively available for commercial costumers and shall be used by skilled personnel only. Every user should be trained according to ARRI guidelines.

Use the product only for the purpose described in this document. Always follow the valid instructions and system requirements for all equipment involved.

The AMIRA is a 35 mm digital camera solely and exclusively for recording HD 1080 or 2K images suitable for a variety of distribution formats:

- ProRes 422, ProRes 422 LT, ProRes 422 HQ* and ProRes 4444* codecs
- REC 709 encoding (through use of look files) or Log C* encoding
- CFast 2.0 card recording
- Up to 200 fps* with full image quality
- 35 mm CMOS sensor
- EVF with OLED eyepiece
- Fold-away monitor for both live view and user interface access
- Ready out-of-the-bag for single-user-centric workflow
- Lean and rugged construction for high mobility

* Feature requires licensing.

3 Scope of delivery and warranty

NOTICE

Product and packaging contain recyclable materials. Always store, ship, and dispose of according to local regulations.

ARRI is not liable for consequences from inadequate storage, shipment or disposal.

Delivery

On delivery, please check if package and content are intact. Never accept a damaged/incomplete delivery. A complete delivery includes:

- AMIRA camera with lens mount according to order: PL, EF, B4
- Multi-viewfinder with AMIRA EVF cable
- Gold Mount or V-Lock battery adapter, if ordered
- Camera handle with viewfinder adapter
- Four XLR connector caps (one spare; keep all four for later use!)
- Four BNC connector caps (remove before use)
- WPA-1 or BPA-3 base adapter, if ordered
- WiFi antenna
- Bluetooth antenna
- USB memory stick
- 2 mm Allen key
- 3 mm Allen key
- Quick Guide
- Original packaging incl. drying agent

Usually, the camera comes fully assembled. In the unlikely case that a handle, viewfinder, adapter, or antenna (etc.) is not assembled, see Page 46 for instructions.

NOTICE

ARRI offers an increasing variety of product bundles and additional accessories.

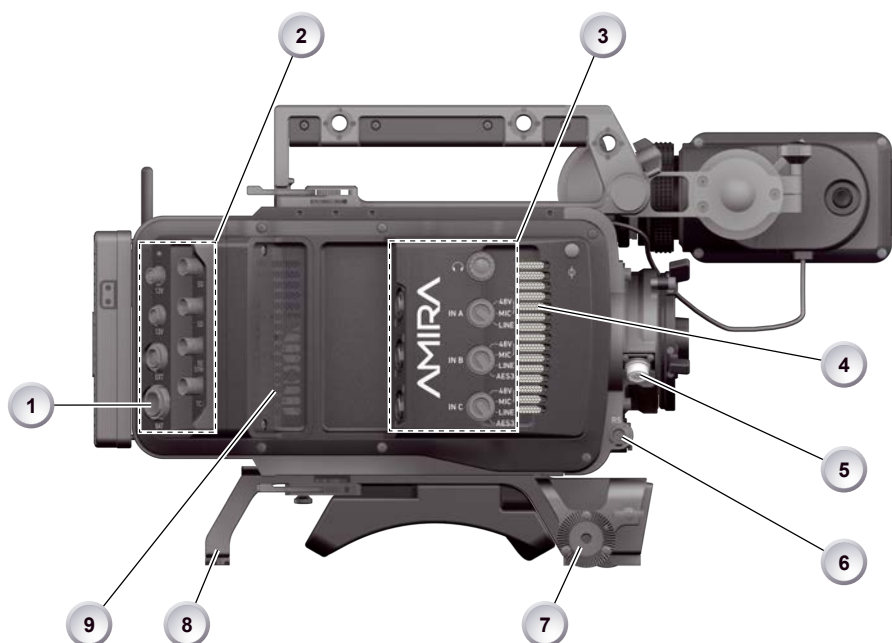
For details, please consult our website or your local ARRI Service Partner.

Warranty

For scope of warranty, please ask your local ARRI Service Partner. ARRI is not liable for consequences from inadequate shipment, improper use, or third-party products.

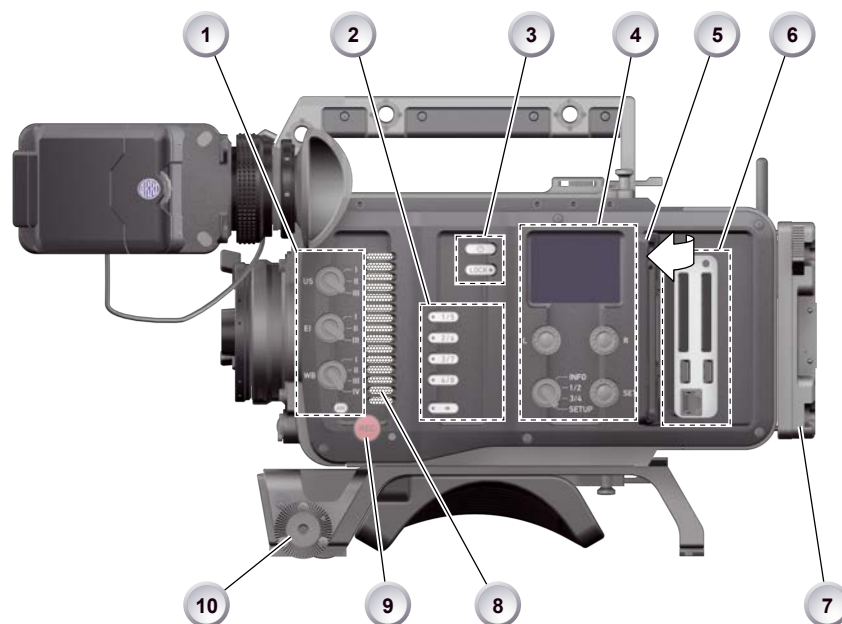
4 Camera layout

Right



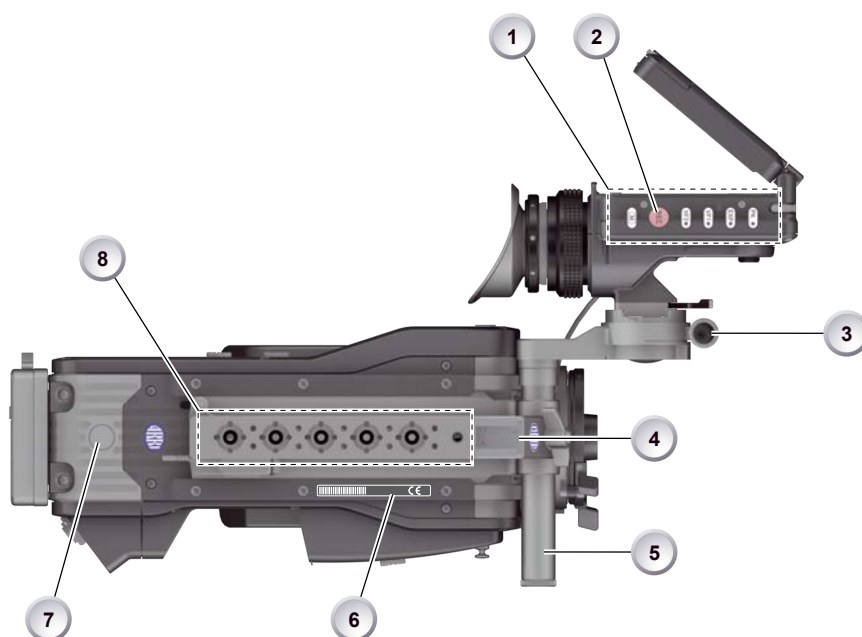
- | | | | |
|---|-----------------------------------|---|-------------------------------------|
| 1 | BAT power input | 6 | RS connector |
| 2 | I/O panel | 7 | Bracket rosette |
| 3 | Audio connector panel | 8 | WPA-1 with quick release connectors |
| 4 | Fan intake | 9 | Fan outlet |
| 5 | 12-pin Hirose for ENG type lenses | | |

Left



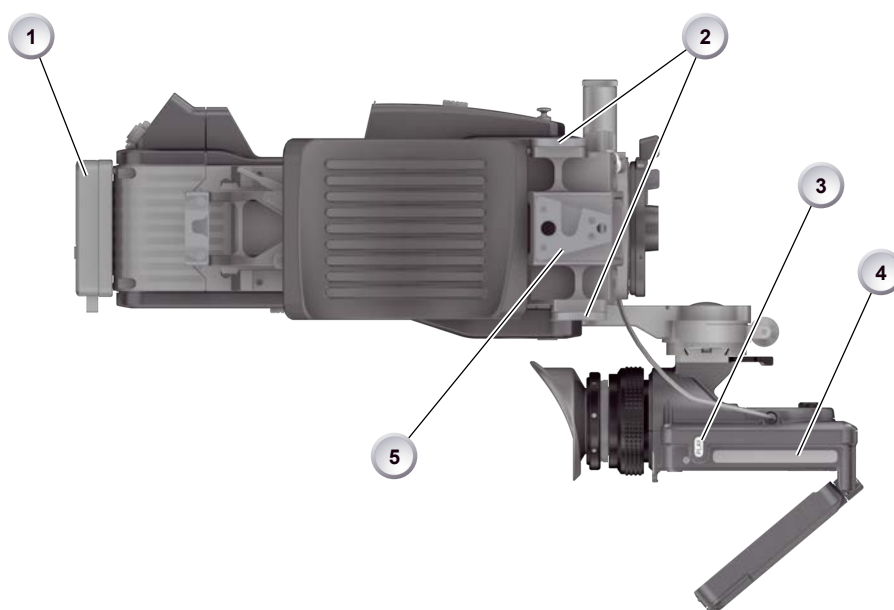
- | | | | |
|---|----------------------------|----|--------------------------|
| 1 | Operator panel | 6 | Media panel (behind lid) |
| 2 | User buttons | 7 | Battery adapter |
| 3 | Power button & camera lock | 8 | Fan intake |
| 4 | Audio control panel | 9 | Recording button |
| 5 | Lid | 10 | Bracket rosette |

Top



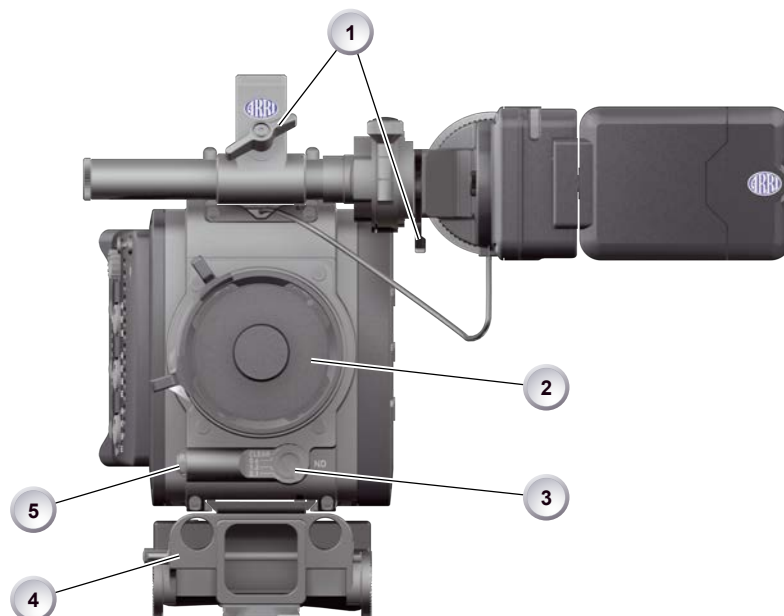
- | | | | |
|---|-----------------------------|---|------------------------------------|
| 1 | Viewfinder top buttons | 5 | Adjustable beam |
| 2 | Recording button | 6 | Camera type label |
| 3 | Viewfinder hinge with clamp | 7 | Level |
| 4 | Accessory shoe | 8 | Accessory threads on camera handle |

Bottom



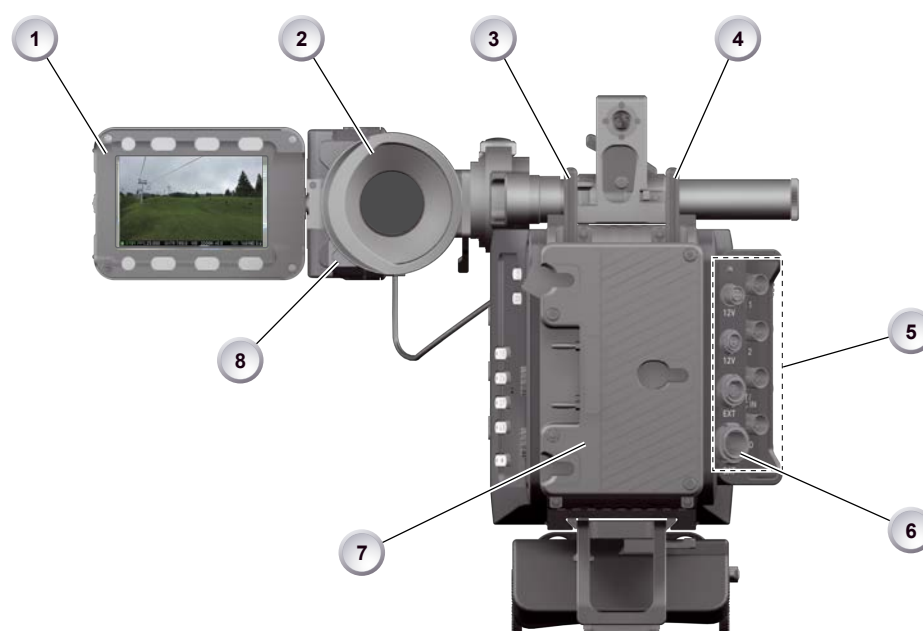
- | | | | |
|---|------------------|---|--------------------------|
| 1 | Battery adapter | 4 | Viewfinder type label |
| 2 | Bracket rosettes | 5 | WPA-1 quick-lock bracket |
| 3 | PLAY button | | |

Front



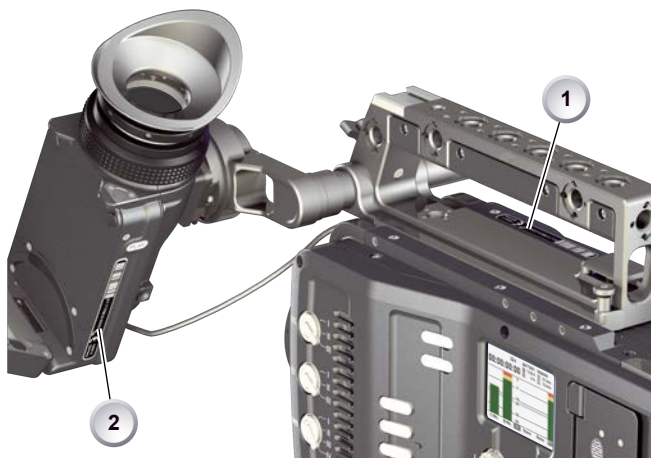
- | | | | |
|---|-----------------------|---|-----------------------|
| 1 | Clamps | 4 | 15 mm rod receptacles |
| 2 | Lens mount (here: PL) | 5 | RS connector |
| 3 | ND filter switch | | |

Back



- | | | | |
|---|------------------------------------|---|------------------------------------|
| 1 | Fold-away monitor (viewfinder/GUI) | 5 | I/O panel |
| 2 | OLED eyepiece | 6 | BAT power input |
| 3 | Bluetooth antenna | 7 | Battery adapter (here: Gold Mount) |
| 4 | WiFi antenna | 8 | Proximity sensor for OLED eyepiece |

4.1 Product identification



CE type labels with serial number are on the camera top (1) and under the viewfinder (2). An FCC conformity label is on the camera bottom.

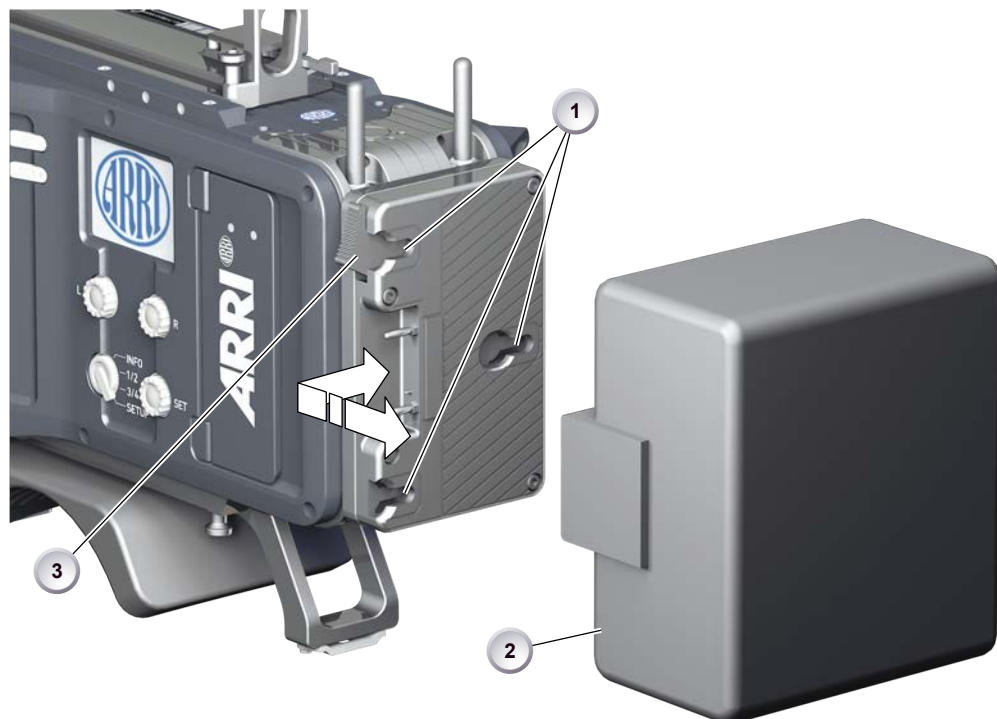
5 Power supply

Depending on your battery demand, the camera offers either a Gold Mount or a V-Lock adapter. You can change both by yourself (see Page 46). For further details, see our website or ask your local ARRI Service Partner.

NOTICE

For maximum operation time, always use fully charged batteries with 10.5 to 34 V DC (50 W minimum).

5.1 Changing a Gold Mount battery



1. Place the battery pins in the mount receptors (1).
2. Slide the battery (2) to the right until the adapter audibly locks (1).
3. **To release:** With the lever pushed (3), slide the battery (2) to the left and backwards.

5.2 Changing a V-Lock battery



1. Place the battery's wedge into the V-shaped lock (1).
2. Slide the battery (2) downwards until the adapter audibly locks (1).
3. **To release:** With the pin pushed (3), slide the battery (2) up- and backwards.

5.3 BAT in

NOTICE

If the power supply to BAT is interrupted with the camera switched on, the camera will automatically repower and boot-up on reconnection.



Use the BAT connector, and a KC50-S or KC50-SP-S cable, to supply the camera with 10.5 to 34 V DC.

5.4 Powering auxiliary devices via camera

You can supply auxiliary devices from the camera via several connectors (2.0 A max):

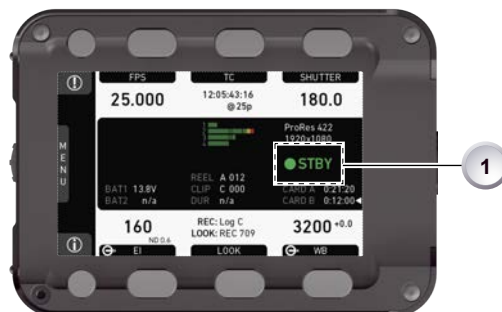
- **12 V** via 2-pin LEMO, 4-pin Hirose, or via D-tap on battery adapter
- **24 V** via RS
- **Camera voltage** via EXT

Note: For connector pin-out information, see the User Manual. With a critical power supply level, the camera switches off all auxiliary power supplies first.

6 Switching on/off



1. **To switch on:** Press the power button (1).
2. The ARRI logo appears in audio display (2) and monitor (3).
3. **To switch off:** Press and hold the power button (1).
4. A countdown appears in audio display, monitor, and viewfinder.
5. On reaching zero, the camera powers off.



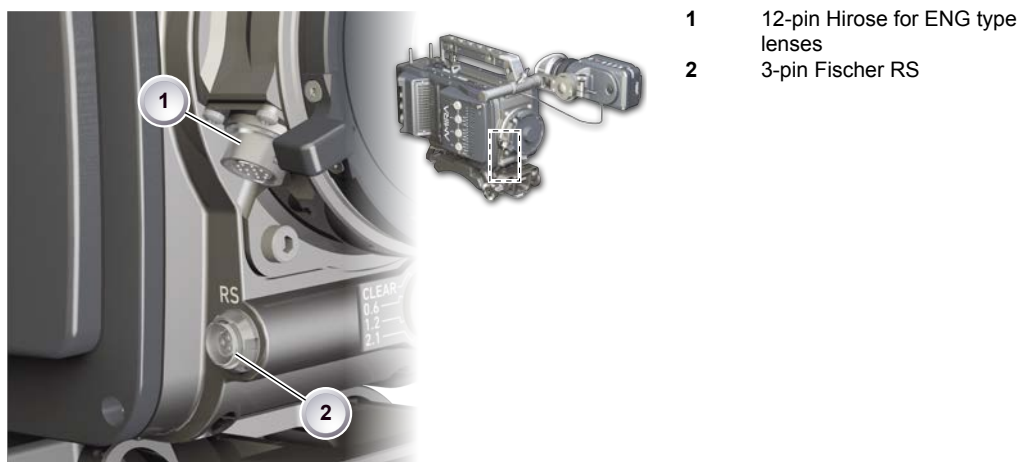
6. **Note:** The *STBY* icon (1) signals that the camera is ready to record.
7. If not: Insert a CFast 2.0 card. See Page 42.
8. Format the card for recording.

7 Connectors

NOTICE

Connecting or disconnecting devices or cables while recording can disturb the audio/image signal due to static electricity.

7.1 Front connectors



ENG (12-pin Hirose)



Supplies lens servos with power and provides access to lens servo functions.

RS (3-pin Fischer)

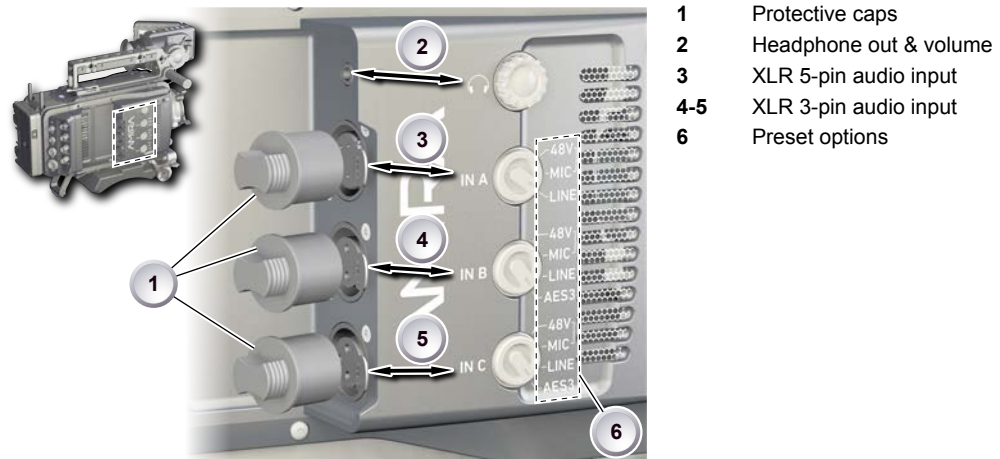


This 3-pin Fischer socket for RS input supplies external accessories with 24 V power (2.0 A). It also carries a frame pulse output and accepts an ARRI remote start/stop trigger.

7.2 Audio connector panel

NOTICE

Rubber caps protect the XLR connectors from dirt and moisture. Always cap unused XLR connectors.



Headphone



Headphone 3.5mm stereo TRS ("Mini-jack") output for monitoring audio channels.

IN A (5-pin XLR)



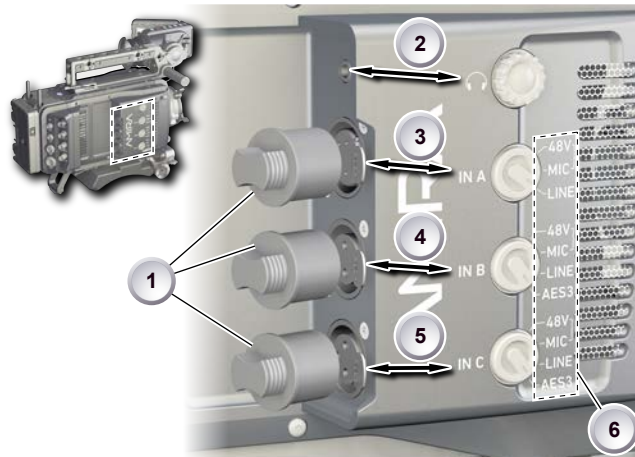
XLR input for microphone signals (including 48V phantom power supply) and line level signals.

IN B & C (3-pin XLR)



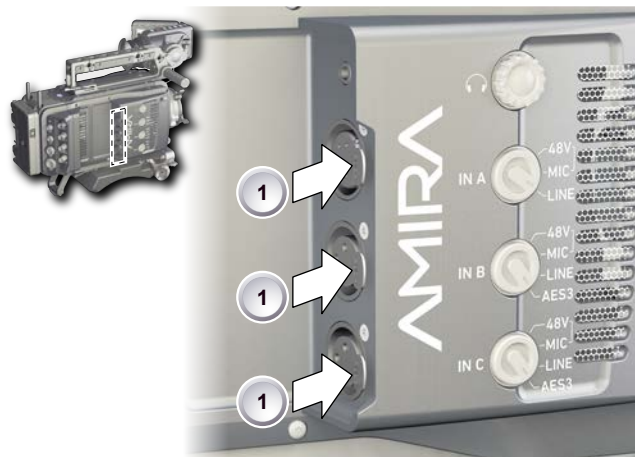
XLR input for microphone signals (including 48V phantom power supply), line level signals and AES3 digital.

Connecting audio devices



1. Uncap the needed connectors only (1).
2. Connect the headphone (2).
3. Set the headphone volume by turning the wheel (2).
4. Alternatively, you can use the *SET* wheel on the camera's left. See Page 29.
5. Via switch (3 to 5), select the appropriate setting for your audio device (6):
 - 48V: Microphone level signals with phantom power supply
 - MIC: Analog microphone level signals
 - LINE: Analog line level signals
 - AES3: AES/EBU signals
6. Connect each device (3 to 5) until the connector audibly locks.

Disconnecting audio devices

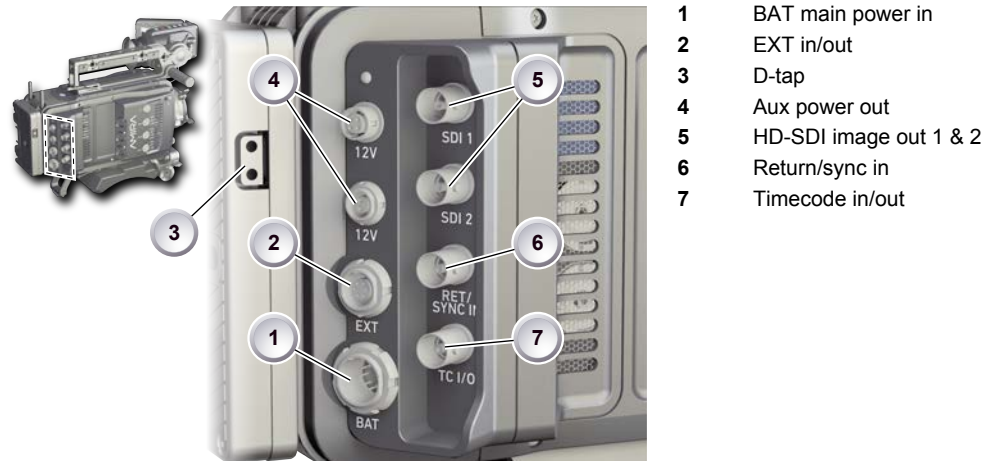


1. Press the *PUSH* button to unlock (1).
2. Remove the cable by pulling on the connector.
3. Replace with another cable.
4. Or: Cap the connector for protection.

7.3 I/O panel

NOTICE

If the power supply to BAT is interrupted with the camera switched on, the camera will automatically repower and boot-up on reconnection.



12V (4-pin Hirose)



Supplies 12 V auxiliary power with a maximum power of 2.0 A.

12V (2-pin LEMO)



Supplies 12 V auxiliary power with a maximum power of 2.0 A.

D-tap



A D-tap on the battery adapter supplies accessories with 12 V DC from the camera.

EXT (8-pin LEMO)



A connector for external accessories, carrying two CAN buses and accessory power output at camera voltage level (2.0 A max.).

BAT (8-pin LEMO)



Via cables KC50-S (2 m, straight) and KC50-SP-S (coiled), this main power supply input accepts 10.5 to 34 V DC.

SDI OUT 1 & 2 (BNC)



Both BNC sockets (here: SDI 1) deliver image outputs in 1920x1080 422 1.5G, 422 3G and 444 3G single link formats.

RET/SYNC IN (BNC)



A BNC socket for Genlock input, or HD-SDI return image signal** (configurable). Supports Blackburst and Tri-Level Sync genlock signals.

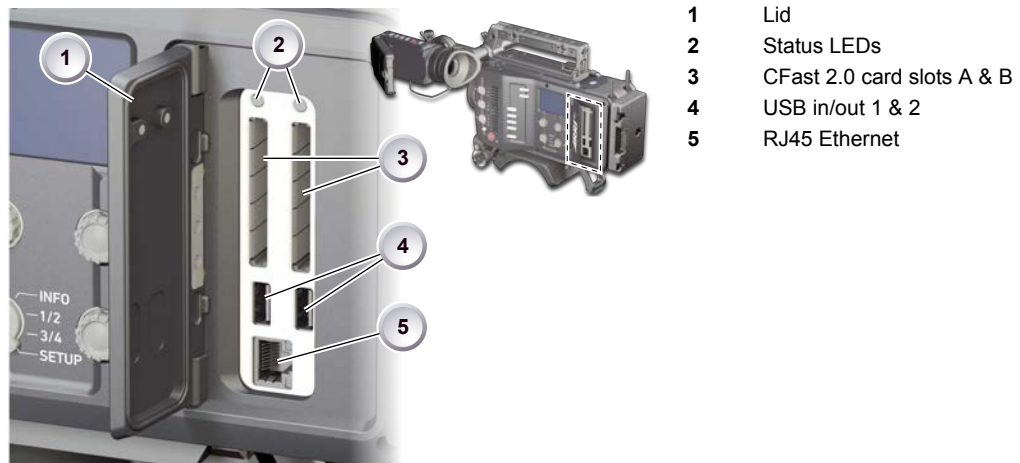
** Feature pending availability upon initial release version.

TC I/O (BNC)



A Timecode in-/output (BNC interface) to be configured via camera menu.

7.4 Media panel



Card A & B (CFast 2.0)



Storage media slots for CFast 2.0 recording cards.

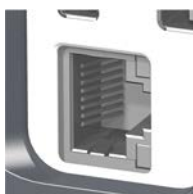
USB 1 & 2



Interface for USB memory sticks with FAT file system. Can also be used to charge USB devices.

Note: Only one USB memory stick can be used at a time. Independent from slot, the stick connected first becomes active. Meanwhile, the second slot can still be used to charge a device.

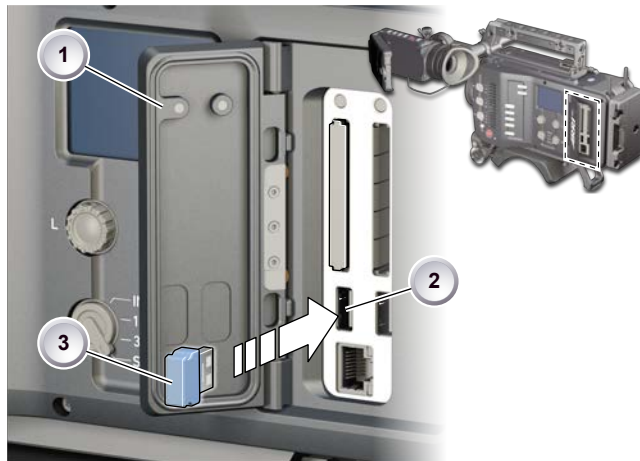
Ethernet LAN



This RJ45 remote and service interface works via LAN.

7.4.1 Preparing a USB memory stick

USB memory sticks for the AMIRA must have a specific folder structure which can be created with the camera.



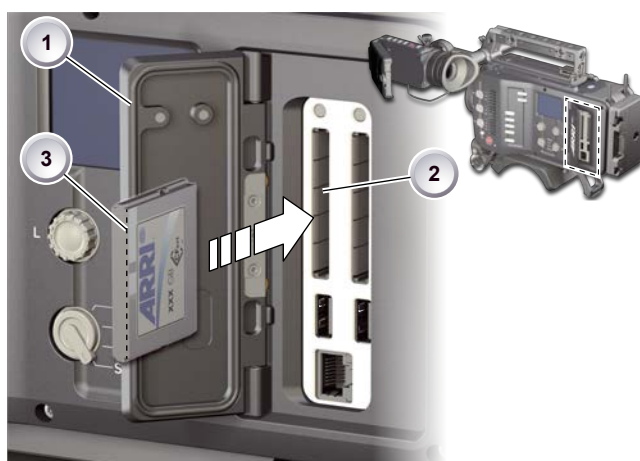
1. To prepare a USB memory stick: Open the media lid (1).
2. Connect a FAT-formatted USB stick (3) to the camera (2).
3. From the home screen, navigate to *Menu > Media > Prepare USB medium*.
4. Press *CONFIRM* to prepare the folder structure.
5. The USB stick (3) is now ready for use with the camera.
6. **Note:** To avoid file corruption, never remove the USB stick during write access.
7. You can remove the stick from the camera without unmounting.

7.4.2 Changing a CFast 2.0 card

NOTICE

Avoid damage to the contacts of both camera and card. Always insert cards as described in this document.

Never change memory cards when recording - this may damage the recorded clip. Other clips on the card will not be affected.



1. Open the lid (1).
2. Align the card's positive edge (3) facing the camera rear.
3. With the contact pins first, gently insert the card, until it audibly locks (2).
4. Gently close the lid (1). **Never** force it closed on an unlocked card.
5. To quickly change the active card you can set up a user button. See Page 38.



6. **For card removal:** Open the lid (1).
7. Push the card in until it audibly unlocks (2).
8. Remove the card.

8 Lens mount/filters



- 1 Lens mount (here: PL)
- 2 ND filter switch (clear - 0.6 - 1.2 - 2.1)

8.1 ND filter switch



The ND filter switch controls the internal ND filter module. Filter densities of 0.6, 1.2 and 2.1 allow quick exposure changes and compensation over a range of seven stops.

1. To activate a filter: Switch to the desired filter position.

8.2 Changing a lens

NOTICE

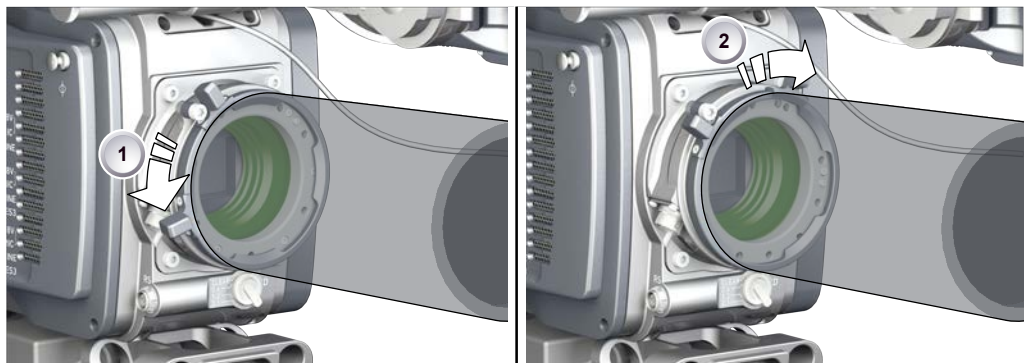
The following description applies to PL mounts. For EF and B4 mounts, please refer to the User Manual.

Protect the sensor: Always keep a lens or protective cap on the empty lens mount.

Change lenses in dry, dust-free environments only.

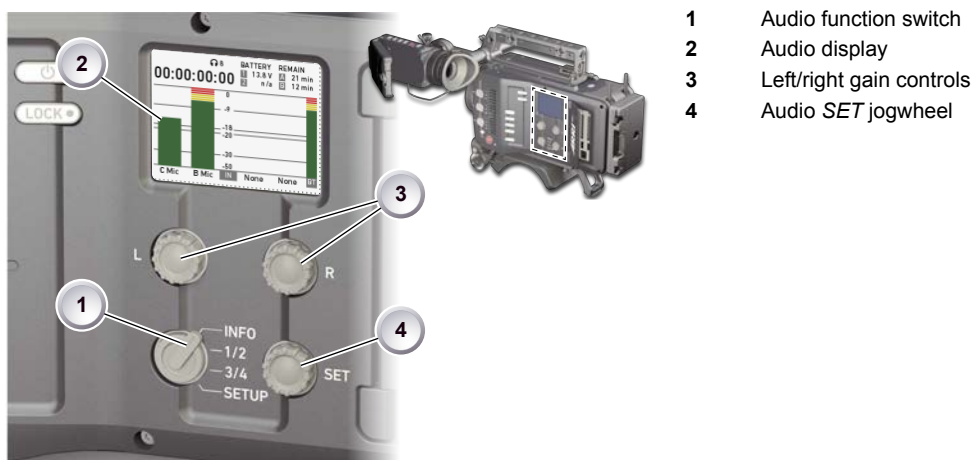
Never exceed the maximum lens dimensions.

Have every lens properly shimmed as prescribed by the manufacturer.



1. Observe maximum lens dimensions (see User Manual).
2. Counter-clockwise unlock (1) the lens mount and remove the lens or cap.
3. **Never** touch the sensor.
4. Either: Mount the next lens and clockwise lock (2) the lens mount.
5. Or: Always cap and clockwise lock (2) an empty lens mount.

9 Audio control panel



9.1 Channel configuration

NOTICE

Audio is disabled if the sensor frame and project rates are not equal. With audio recording disabled or otherwise switched off, neither audio in/output nor audio processing is possible.

Checking the audio status



1. Select *INFO* (1) to display current status information (2).
2. *L* and *R* (3) are now deactivated.
3. Select *1/2* or *3/4* (1) to configure the respective audio channels (2).

Adjusting channel gain



1. Select 1/2 or 3/4 (1).
2. Adjust channel 1 (or 3) gain via *L* wheel (3).
3. Adjust channel 2 (or 4) gain via *R* wheel (3).
4. To change channel 1/2 (or 3/4) setup: Select and edit the desired parameter via *SET* jogwheel (4).
5. To enter the edit mode: Press *SET* (4).
6. To change a parameter: Press and turn the *SET* jogwheel (4).
7. To confirm and leave the edit mode: Press *SET* (4) again.

Editing the audio setup



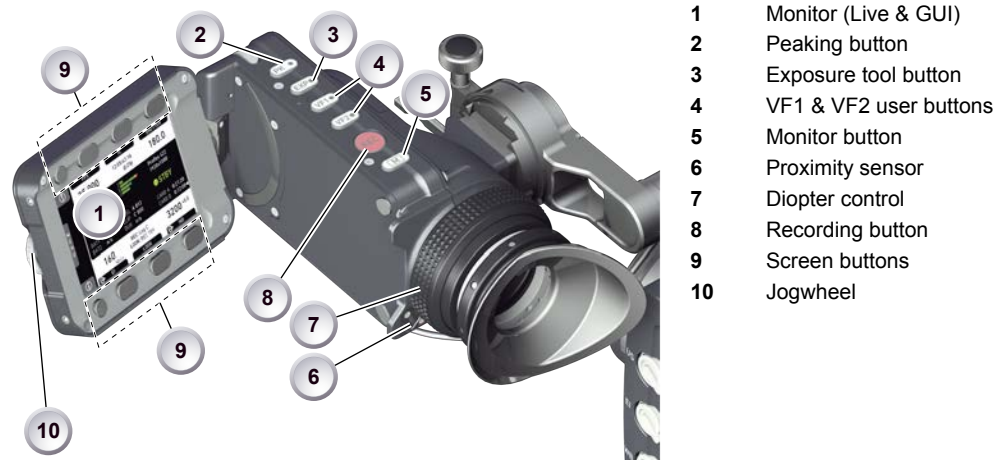
1. Select *SETUP* (1) for adjusting overall audio parameters (2).
2. To navigate and adjust: Press and turn the *SET* jogwheel (4).
3. To enter or confirm: Press *SET* (4).

9.2 Headphone volume



1. Switch to *INFO* (1).
2. For headphone volume control: Press and turn the *SET* jogwheel (4).
3. Alternatively, use the headphone volume wheel. See Page 19.
4. The volume level appears in the display (2), next to the headphone icon.

10 Main controls and viewfinder



Proximity sensor



This infrared sensor automatically deactivates the viewfinder's internal OLED panel when you withdraw your eye.

Note: To avoid hardware damage, always keep the sensor clear.

10.1 *PK* peaking button



1. To activate peaking on monitor (1) and viewfinder (3): Press *PK* (2).
2. Peaking highlights the image parts that are in focus for better focus judgement.
3. For *PK* setting: Go to *MENU > EVF/Monitor/SDI > EVF/Monitor > Peaking*.

10.2 EXP exposure tool button



The *EXP* button (2) activates the set exposure tool on the monitor (1) and EVF image (3). Use the tool for evaluation of the image exposure levels. An activated tool lights up the button.

For *EXP* setting: Go to *MENU > EVF/Monitor/SDI > EVF/Monitor > Exposure tool*. Two modes are available:

Zebra overlays up to two luminance ranges with diagonal stripes. *High zebra* ranges above, *Mid zebra* around, the user-defined luminance value.

False color overlays predefined luminance ranges as follows:

Luminance range	Signal level	Color
White clipping	100 to 99 %	Red
Just below white clipping	99 to 97 %	Yellow
One stop over medium gray (Caucasian skin)	56 to 52 %	Pink
18 % medium gray	42 to 38 %	Green
Just above black clipping	4.0 to 2.5 %	Blue
Black clipping	2.5 to 0.0 %	Purple

10.3 VF1 & VF2 user buttons



1. Via the camera menu (see Page 36 and Page 38), you can assign a function to both *VF1* and *VF2* buttons (1).

10.4 Recording

NOTICE

Pressing a recording button returns the user interface to the home screen and disables the menu access.

Recording also disables the *US* switch and the home screen buttons for *FPS*, *TC*, *Shutter*, and *Look* settings.



1. Prepare the camera.
2. Preset all switches and buttons.
3. Press *REC* (1) on the left camera side.



4. Alternatively, press *REC* (1) on the viewfinder.

NOTICE

Never change memory cards when recording: It may damage the recorded clip. Other clips on the card will not be affected.

NOTICE

Connecting or disconnecting devices or cables while recording can disturb the audio/image signal due to static electricity.

10.5 *PLAY* button



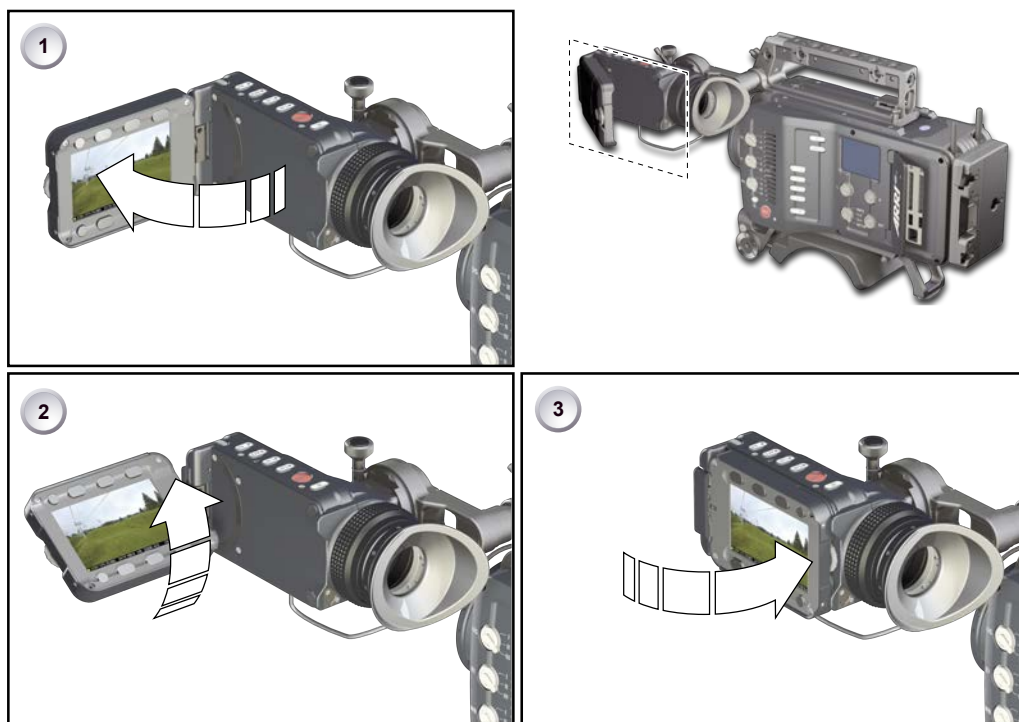
1. Press *PLAY* (1) to see the last clip of the active CFast 2.0 card.
2. Playback is active on monitor, on EVF and on SDI out.
3. To leave playback: Press *PLAY* (1) for one second.
4. Or: Press the EXIT screen button.
5. To select other clips, use the on-screen navigation. For details, see the User Manual.

10.6 Diopter adjustment



1. Twist the ring left or right for diopter adjustment (1).

10.7 Adjusting the monitor



1. Fold (1), swivel (2) and flip (3) the monitor according to your needs.

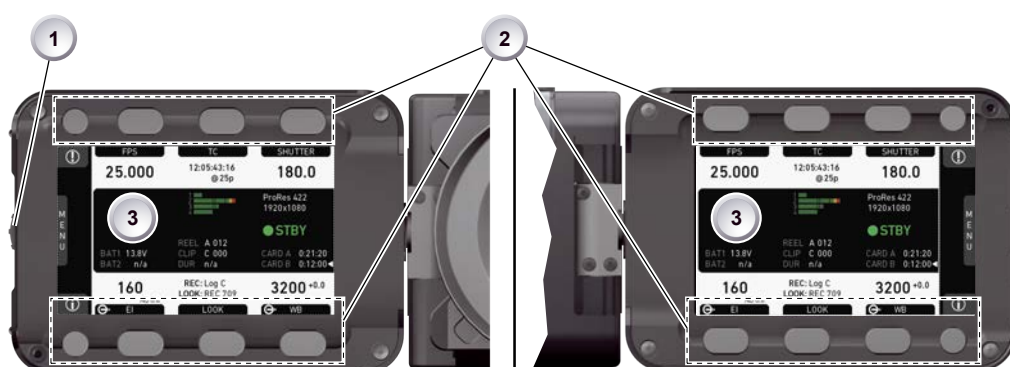
10.8 Changing the monitor mode



1. To change the monitor mode between live view and user interface: Press *M* (1).



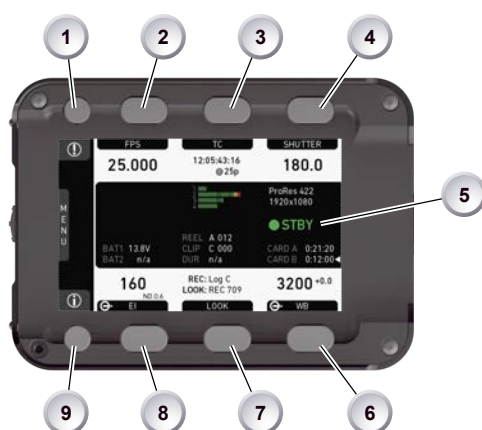
2. In live mode, toggle the status bar content (1) via the lower buttons.



3. Via camera menu, you can activate a location sensor that automatically flips the user interface to match a left- or right-sided monitor position (3).
4. **Note:** the jogwheel (1) and the screen buttons (2).

10.9 Menu access

The user interface centers around the home screen, with access to essential status parameters and camera functionalities:

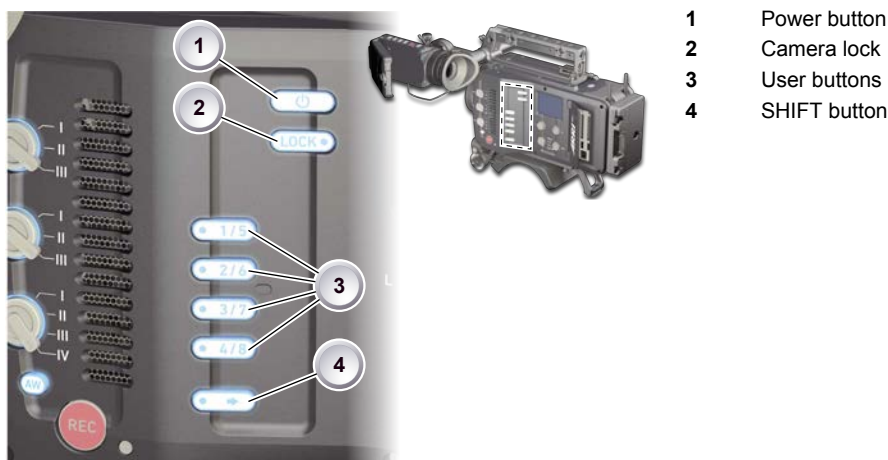


- 1 !: Alert messages
- 2 FPS: Sensor frame rate
- 3 TC: Timecode
- 4 SHUTTER: Shutter angle or, if chosen instead, exposure time
- 5 STBY: Camera standby status
- 6 WB: White balance
- 7 LOOK: Gamma settings and look files
- 8 EI: Exposure index
- 9 i: Info messages



1. To enter the *MENU*: Press the jogwheel (1).
2. Scroll with the jogwheel (2) up or down to the desired entry (4).
3. To enter: Press the jogwheel (2).
4. Entries with an arrow navigate to a lower menu level.
 - To navigate deeper: Use the jogwheel (2).
 - To return to a higher menu: Press *BACK* (5).
5. Entries with a value allow direct editing.
 - To edit a value: Turn the jogwheel (2).
 - To confirm and end editing: Press the jogwheel (2).
 - To cancel editing: Press *BACK* (5).
6. To leave the menu: Press *HOME* (3).

11 User preset panel



11.1 Locking/unlocking

NOTICE

Locking the camera disables, unlocking re-enables, all camera controls except recording and audio.

On a locked camera, never switch *US*, *EI*, *WB*, or *ND* into a new position. Otherwise, unlocking will change the switch presetting.



1. Press and hold *LOCK* (2).
2. A countdown appears in both monitor and viewfinder. Once the countdown reaches zero, the camera is locked.
3. **To unlock:** Press and hold *LOCK* (2) again.

11.2 User buttons

In the camera menu (*MENU > User buttons*) you can assign individual functions to each user button. For full instructions, see the User Manual.



1. Press a button (1) to trigger its function.
2. For buttons five to eight: Press and hold *SHIFT* (2); then press a button (1).
3. An LED on each button reflects the functional status.
4. To check the functional status of buttons five to eight (1): Press *SHIFT* (2).

Presetting user (and VF) buttons



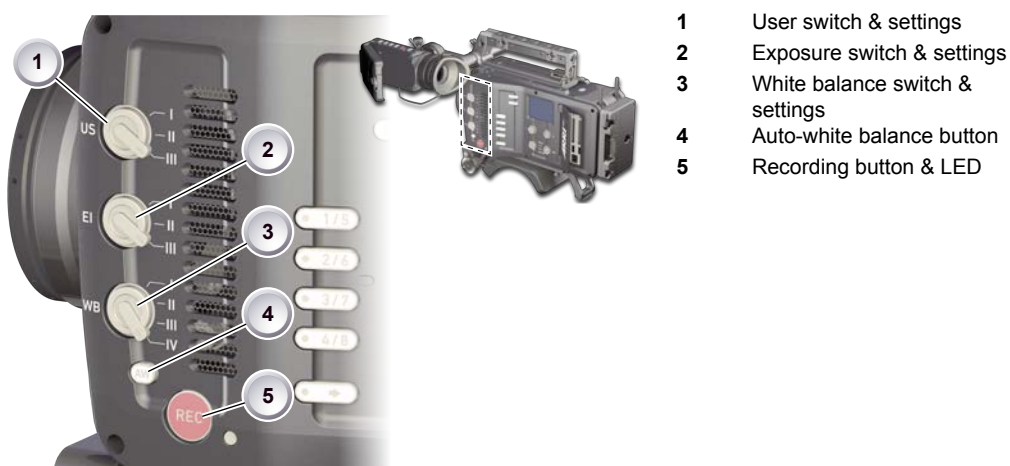
1. Toggle from live monitor to home screen. See Page 34.
2. Press wheel (1) for *MENU*.
3. Wheel-navigate (2) to *User buttons* > *Button x* (4) and enter (2).
4. Wheel-navigate to the desired function and enter (2).
5. If applicable: Wheel up or down (2) to the desired value.
6. To cancel: Press *BACK* (5).
7. To confirm: Press the wheel (2).
8. To conclude: Press *HOME* (3).
9. If applicable: Repeat for all other buttons, including *VF1* and *VF2*.

12 Operator panel

NOTICE

The operator panel consists of switches that offer quick changes of important camera functions, such as exposure index or white balance.

For all switch positions (except *ND* positions), you can assign an individual presetting. See the User Manual for full instructions.



12.1 Setting the *US* switch function



1. Switch *US* (1) to the desired position.



2. From the home screen, navigate (1) to *MENU* > *User* > *User buttons* (4).
3. Via jogwheel (2), select the entry *User switch* and change it according to your needs:
 - *None*: User switch is disabled
 - *FPS*: Switch changes the sensor frame rate
 - *SHUTTER*: Switch changes the shutter angle
 - *EXP Time*: Switch changes the exposure time
 - *Look*: Switch changes the look file
4. Leave the menu by pressing *HOME* (3).
5. **Note:** Recording disables the *US* switch.

12.2 Presetting the *US* / *EI* / *WB* switches



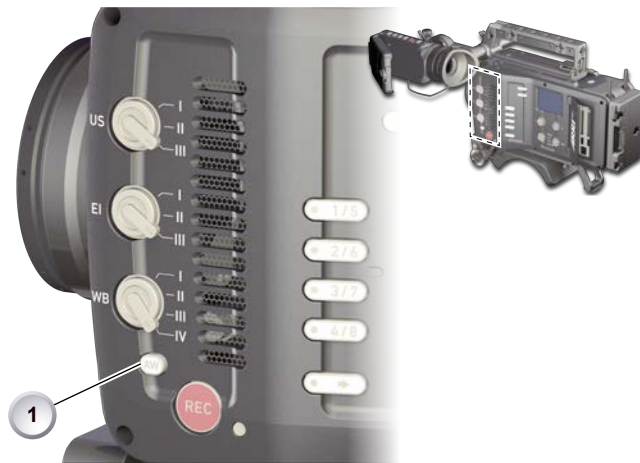
1. On the home screen, select a switch function (here: *FPS*) by pressing the button (1).
2. **Note:** Active functions show a switch icon in the button label.
3. You can change only the preset of the active switch position.
4. Change the switch to the desired position.
5. Press the *SET XX* button (4).
6. Via jogwheel (2), select the desired preset.
7. Confirm by pressing the wheel (2).
8. Repeat for other switch positions if desired.

9. For *FPS*, *SHUTTER*, *LOOK*, and *WB*, you can configure preset lists for each switch position.
10. See the User Manual for detailed instructions.

12.3 *AW* auto white balance button

The *AW* button triggers the auto white balance functionality: Based on the camera's live image, *AW* calculates an automatic white balance and overwrites the active *WB* settings. The *AW* result is stored as the preset value of the active *WB* position.

AW triggering



1. To trigger an automatic white balance: Press *AW* twice within one second (1).

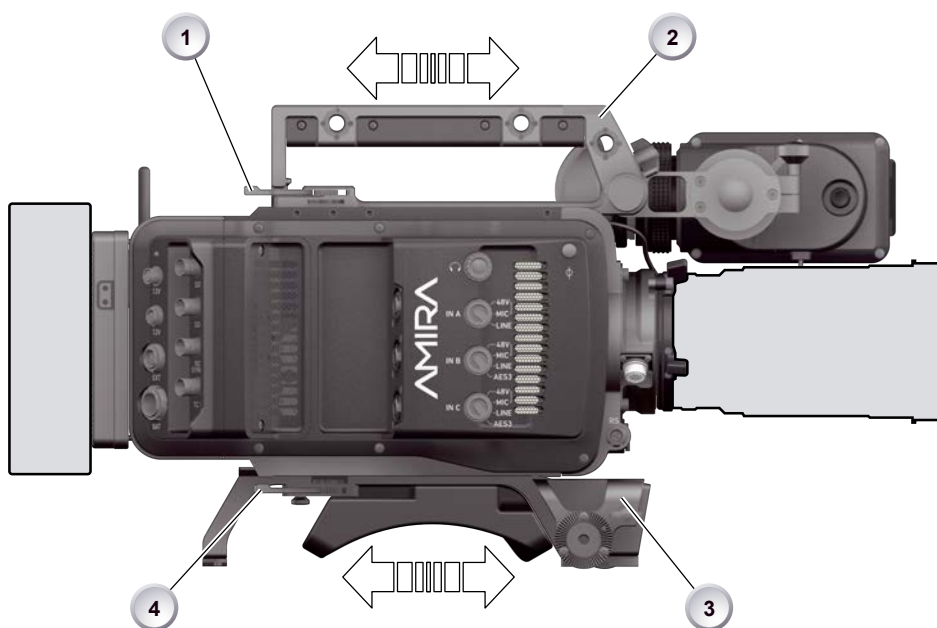
13 Camera preparation

13.1 Adjusting the viewfinder



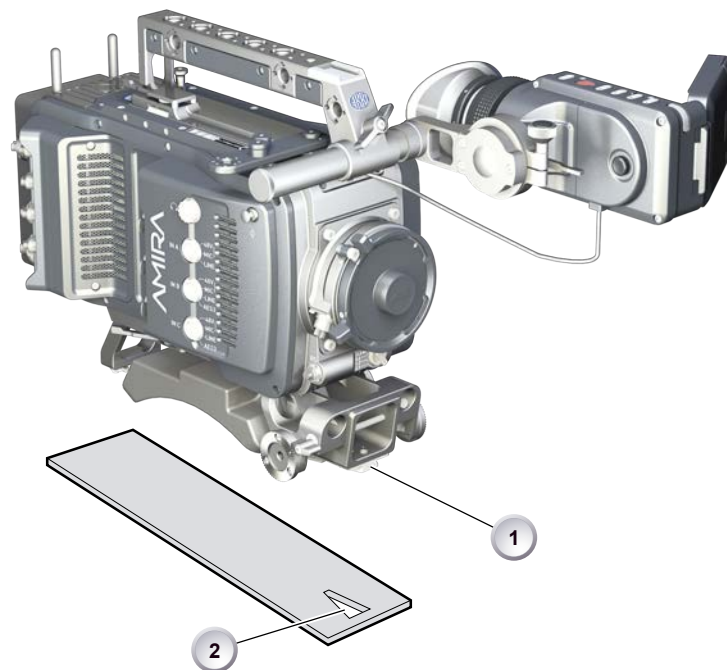
1. Slightly loosen the clamp (1) to move the viewfinder (2) left/right and up/down.
2. Unclamp the hinge (3) to swivel the viewfinder horizontally.
3. Close all clamps (1, 3) when the viewfinder is in the desired position (2).

13.2 Balancing the camera weight



1. Unlock (4) and slide the base adapter (3) until the camera is balanced.
2. Close the clamp (4).
3. Unlock (1) and slide the handle (2) until the camera is balanced.
4. Close the clamp (1).

13.3 Mounting to a wedge plate

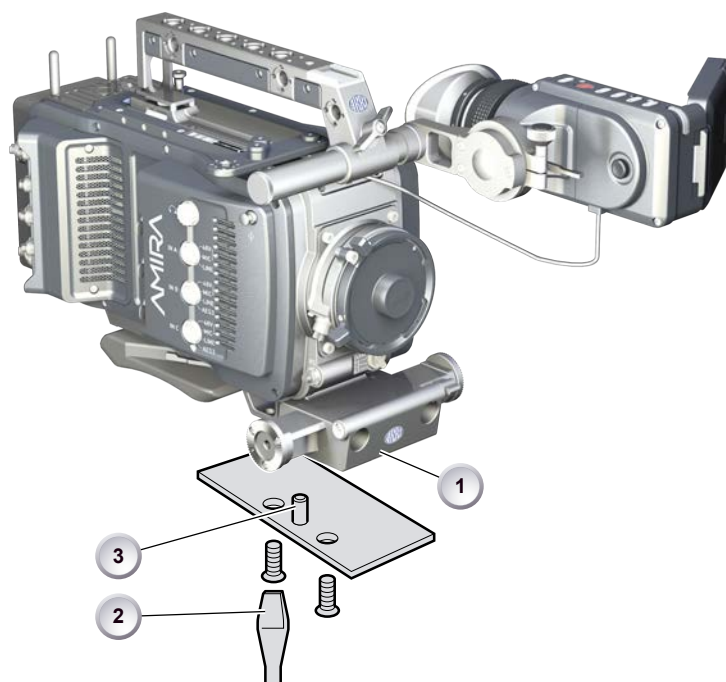


1. For mounting to a wedge plate, use the WPA-1 wedge plate adapter.
2. Open the quick-release base plate.
3. Place the adapter (1) into the quick-lock plate slightly behind the connection points.
4. Slide the camera forward until the quick-lock audibly locks (2).
5. **Note:** The lock must be closed.

13.4 Mounting to a bridge plate

NOTICE

Always use a flat screwdriver to connect the BPA-3 to a bridge plate. Never use a coin. A coin does not deliver enough force to ensure proper lock.



1. For mounting to a bridge plate, use the BPA-3 bridge plate adapter.
2. Place the bridge plate under the adapter (1).
3. Adjust the bridge plate's nose (3) to the adapter's aperture.
4. With a flat screwdriver (**no coin!**), attach the screws to the adapter and tighten (2).
5. **Note:** Always ensure proper lock.

14 Assembly and retrofits

NOTICE

To avoid damage while assembling and retrofitting, always place the camera on a padded, firm, flat and level surface.

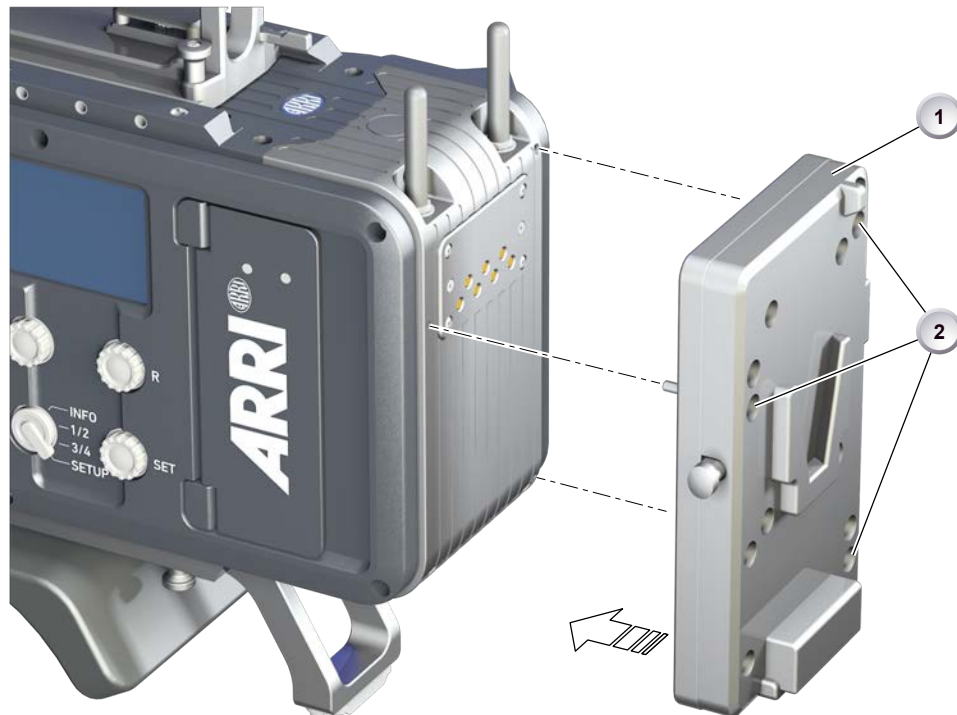
Work on an unpowered camera only.

14.1 Battery adapter

Tools needed

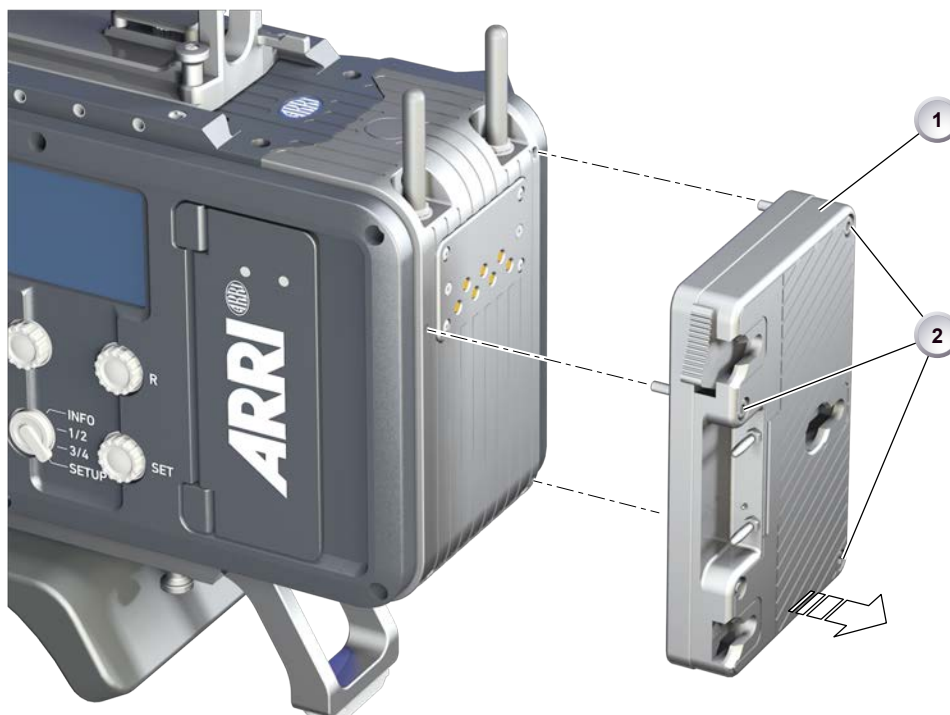
- 2.5 mm Allen key

Mounting



1. **Note:** The illustration shows a V-Lock adapter.
2. Switch off; interrupt the power supply.
3. Pin the battery adapter (1) to the camera.
4. With a 2.5 mm Allen key, fasten all three screws (2) until the adapter fits tightly.

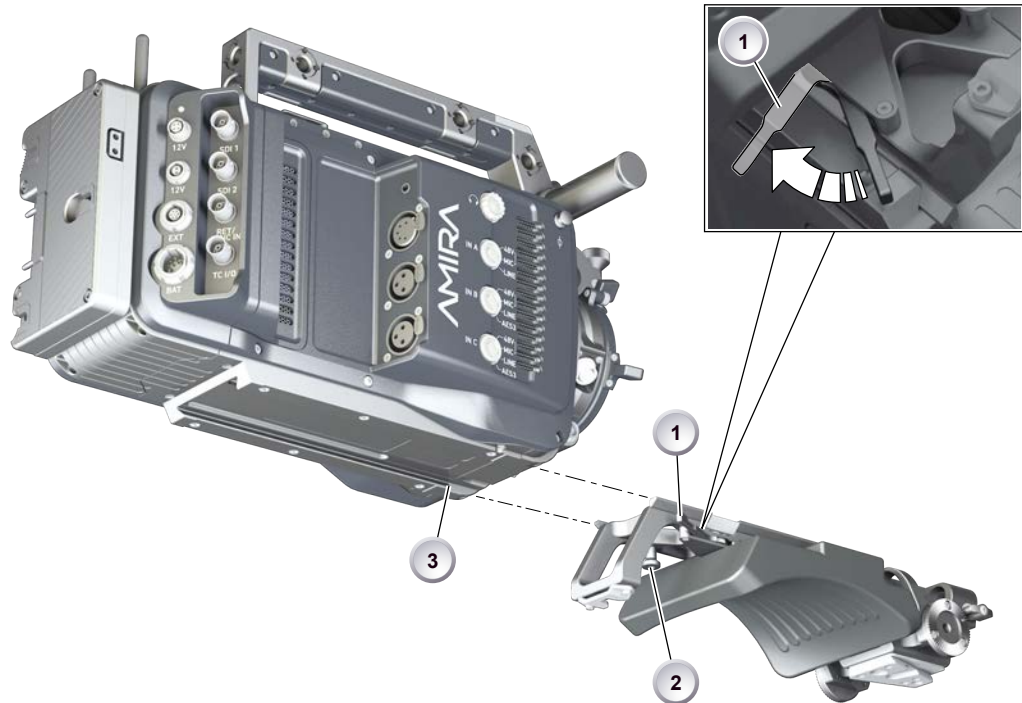
Unmounting



1. **Note:** The illustration shows a Gold Mount adapter.
2. Switch off; interrupt the power supply.
3. With a 2.5 mm Allen key, unfasten all three screws (2).
4. Remove the battery adapter (1).

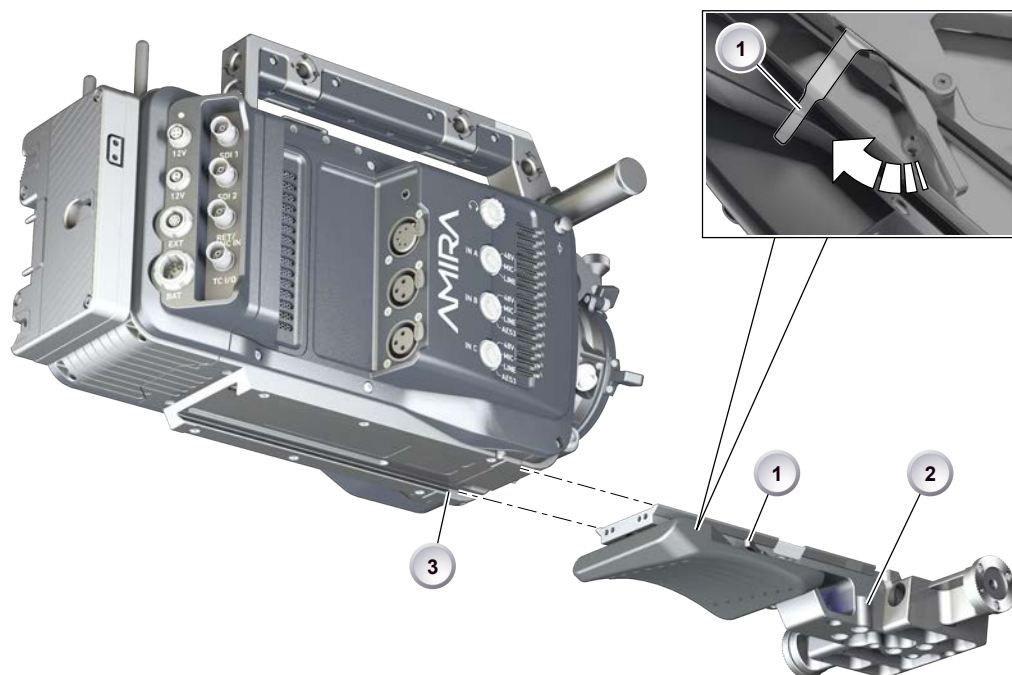
14.2 Base adapter

Mounting



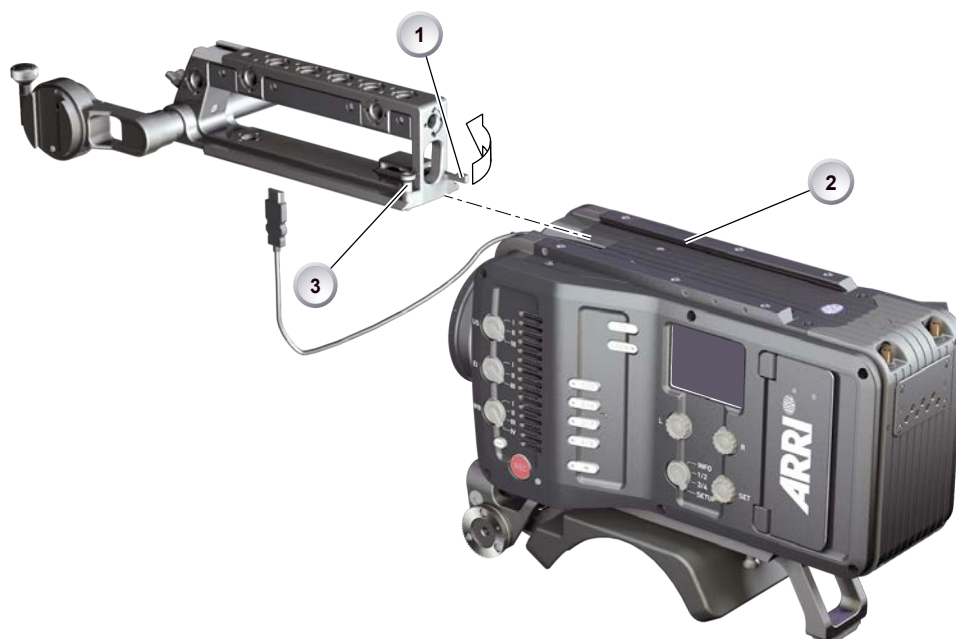
1. **Note:** The illustration shows a WPA-1.
2. Open the clamp (1).
3. Slide the adapter under the camera (3).
4. **Note:** The safety pin (2) must audibly lock.
5. Close the clamp (1).

Unmounting



1. **Note:** The illustration shows a BPA-3.
2. Open the clamp (1).
3. With the safety pin pulled (2), slide the adapter off the camera (3).

14.3 Camera handle



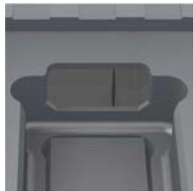
1. Open the clamp (1).
2. Slide the handle onto the camera (2).
3. **Note:** The safety pin (3) must audibly lock.
4. Close the clamp (1).
5. **To unmount:** Open the clamp (1).
6. With the safety pin pulled (3), slide the handle off the camera (2).

14.4 Viewfinder and EVF cable

Tools needed

- 2 mm Allen key

EVF port



Via original AMIRA EVF cable, this port connects the camera to the multi-viewfinder.

Changing the EVF cable



1. **Note:** Use original AMIRA EVF cables only.
2. Place the camera bottom-down.
3. Unmount the camera handle. See Page 50.
4. With a 2 mm Allen key, unscrew and remove the lid (1).
5. Either: Connect the cable (2) to the EVF port.
6. Or: Disconnect the cable (2).
7. Reattach lid (1) and camera handle.

Changing the viewfinder



1. Switch off; interrupt the power supply.
2. **Note:** Use original AMIRA EVF cables only.
3. Connect a EVF cable to the camera. See Page 51.
4. With your fingers, unscrew and remove the viewfinder's lid (1).
5. Either: Connect the cable (2) to the EVF port.
6. Or: Disconnect the cable (2).
7. Reattach the lid (1).



8. Open the clamp (1).
9. Either: Dovetail the viewfinder to the bracket (2).
10. Or: Unbracket (2) and remove the viewfinder.
11. Close the clamp (1).

14.5 Antennas



1. With your fingers, thread the antennas for WiFi (1) and Bluetooth (2) onto the camera.
2. **To unmount:** Unthread the antennas (1, 2) with your fingers.

WiFi



Antenna for WiFi signal according 802.11g. Used for remote camera access.**

** Feature pending availability upon initial release version.

Bluetooth



Antenna for bluetooth signal. Used for wireless audio monitoring and comment channel return with bluetooth headset. Supports Handsfree and A2DP protocols.**

** Feature pending availability upon intial release version.

15 Licensing and updating

Tools needed

- Sufficient power supply
- Product key
- Internet access
- FAT-formatted USB memory stick with a camera-compatible folder structure.
See Page 22

15.1 Camera updates

The camera supports the installation of SUP software update packages. Check www.arri.com for the latest available SUP version.

To install an update, follow the instructions coming with the SUP.

15.2 Licensing

You can further enhance the camera capabilities through licensed features available for online purchase. Visit the ARRI license shop at <http://alshop.arri.de> and follow the instructions for purchasing and downloading license keys.

License keys are linked to each camera's serial number and cannot be transferred from one camera to another.



The list of installed licenses on your camera is available under: *Menu > System > Licensed feature* (4).

For full instructions, see the User Manual.

16 Appendix

16.1 Dimensions and weight (with PL mount)



Length	309 mm
Height	149 mm
Width	139 mm
Weight	4.1 kg

16.2 Electrical data

DC power input	10.5 to 34 V
DC power output	10.5 to 12 V (RS: 24 V) / 2.0 A
Operation temperature	-20 to +50 °C (-4 to +122 °F)

16.3 Declarations of conformity

EC Declaration of Conformity

The product AMIRA 1 conforms with the specifications of following European directives:

- Directive 2004/108/EC Community directive for the adaptation of legal regulations of member countries regarding electromagnetic compatibility
- Directive 199/05/EC Radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity
- Directive 2011/65/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment

The compliance with the requirements of the European Directive was proved by the application of the following harmonized standards:

- EN 55103-1:2009 / EN 55022:2010
- EN 55103-2: 2009
- EN 301 489-1:2011
- EN 301 489-17:2012
- EN 62479:2010
- DIN EN 50581:2013-02

FCC Compliance Statement

Class A Statement: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

Note: This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

- **WLAN:** FCC ID: PD962205ANH
- **Bluetooth:** FCC ID: QOQWT32AE

Industry Canada Compliance Statement

Complies with the Canadian ICES-003 Class A specifications.

Cet appareil numérique de la Classe A est conforme à la norme NMB-003 du Canada.

This device complies with RSS-210 of Industry Canada.

Cet appareil est conforme à CNR-210 d'Industrie Canada.

This Class A device meets all the requirements of the Canadian interference-causing equipment regulations

Cet appareil numérique de la Classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

- **WLAN:** IC ID: 1000M-62205ANH
- **Bluetooth:** IC ID: 5123A-BGTWT32AE